

S/058/61/000/002/003/018
A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 2, p. 219, # 20340

AUTHOR: Nasyrov, G.A.

TITLE: Hypersensitization of Photoemulsions by Mercury Vapors

PERIODICAL: "Tr. In-ta fiz. i geofiz. AN TurkmenSSR", 1959, Vol. 6, pp. 151-160

TEXT: The author investigated hypersensitization of photoemulsions by Hg vapors with the purpose of selecting its optimum variant as applied to astro-photographic materials. The best results were obtained by holding photomaterials prior to exposure in Hg vapors at a temperature of 16-19°C for 4 days. Under these conditions, sensitivity increase amounted to from 2.8 to 22 times for different materials. 

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

TRUTTSE, Yu.L.; NASYROV, G.A.

Photographic observations of Schaumasse's comet (1959k) in
Ashkhabad. Astron. tsir. no. 214:3 S '60. (MIRA 14:1)

1. Fiziko-tehnicheskiy institut AN TSSR.
(Comets—1959)

TRUTTSE, Yu.L.; NASYROV, G.A.

Photographic observations of nova Herculis (1960). Astron.tsir.
no.21914-6 Mr '61. (MIRA 14:10)

1. Fiziko-tehnicheskiy institut AN Turkmeneskoy SSR.
(Stars, New)

TRUTTSE, Yu.L.; MASYROV, G.A.

Photographic observations of Wilson's comet in Ashkhabad.
Astrom.tsir. no.226:2 0 '61. (MIRA 16:1)

1. Fiziko-tehnicheskiy institut AN Turkmeneskoy SSR.
(Comete--1961)

NASYROV, G.A.

Processing of meteor photographs. Izv.AN Turk.SSR.Ser.fiz.-tekhn.,-
khim.i geol.nauk no.3:127 '62. (MIRA 16:5)

1. Fiziko-tehnicheskiy institut AN Turkmenской SSR.
(Meteors) (Astronomical photography)

TRUTTSE, Yu.L.; NASYROV, G.A.

Photographic observations of Humason's comet (1962e) in Ashkabad.
Astron. mir. no.231:1-2 N '62. (MIRA 16:4)

1. Astrofotometricheskaya laboratoriya Fiziko-tehnicheskogo instituta
AN Turvenskoy SSR.

(Comets—1962)

TRUTTSE, Yu.L.; NASYROV, G.A.

Some characteristics of the astroclimate of the Bairam-Ali region
of Turkmen S.S.R. Izv. AN Turk.SSR.Ser.fiz.-tekhn., khim.i geol.nauk
no.1:101-103 '62. (MIRA 16:12)

NASYROV, G.A.

Atmospheric transparency as observed at Vannovskiy. Izv. AN Turk.
SSR.Ser. fiz.-tekhn., khim. i geol. nauk no.4:128-130 '63.(MIRA 17:2)

1. Fiziko-tehnicheskiy institut AN Turkmeneskoy SSR.

NASYROV, G.A.

Continuous background of airglow. Geomag. i aer. 4 no.6:1, 18-1120
N-D '64. (MIRA 18.1)

1. Fiziko-tekhnicheskiy institut AN Turkmeneskoy SSR.

EMT(1)/EMT(3)/PGC/EMT(1)/ETI 1JP(c) JD/GW
ACC NR: A77001644

SOURCE CODE: UR/0203/66/006/004/0788/0789

AUTHOR: Nasyrov, G. A.

ORG: Physicotechnical Institute, AN TurkSSR (Fiziko-tehnicheskiy Institut AN TurkSSR)

TITLE: Size of inhomogeneities of the green line of atomic oxygen in the night airglow

SOURCE: Geomagnetism i aeronomiya, v. 6, no. 4, 1966, 788-789

TOPIC TAGS: airglow, photometry

ABSTRACT:

Observations of the night airglow made under the IQSY program were used in determining the size of spatial inhomogeneities of the green line of atomic oxygen OI λ 5577. Observations were made using a multi-channel scanning electrophotometer. The article presents the results of processing of observations made in January-December 1964. During this period a total of 3,240 spatial inhomogeneities were recorded on 59 nights. Brighter or fainter regions of glow are observed about 85% of the total time of observations. In the January-December period not a single night was observed with absence of such "spots", although sometimes they could not be observed for 1-2 hours. Statistical investiga-

Card 1/2

UDC: 551.524.72

0924 1377

L 08738-67

ACC NR: A17001644

0

tions for determining the sizes of the spots made by Roach, et al (J.
Atmos. and Terr. Phys., 1958, 13, 113) indicated that the sizes of the
spots averaged 2,500 km. However, the author of this paper, using a
highly sensitive electrophotometer, was able to detect spots of less
than 30 km extent. Therefore, these inhomogeneous formations or spots
of the green line of atomic oxygen in the night airglow probably measure
from ten to several thousand km.

Orig. art. has: 2 figures and 1 table. [JPRS: 38,230]

SUB CODE: 04 / SUBM DATE: 05Jan66 / ORIG REF: 003 / OTH REF: 001

Card 2/2 bc

NASYROV, G.Z.; LAYNER, A.I.

Effect of potash lye and sulfates on the decomposition of
aluminate solutions in the complex treatment of alumite. Izv.
vys. ucheb. zav.; tsvet. met. 8 no.5:77-81 '65. (MIRA 18:10)

1. Moskovskiy institut stali i splavov, kafedra metallurgii
radikoaktivnykh metallov i kompleksnoy pererabotki polimetalli-
cheskikh rud.

DANLOVA, T.A.; TITS-~~KVORTSOVA~~, I.N.; KUZNETSOV, B.V.; NASYROV, I.

Interaction of mercury acetate aqueous solution with organic
sulfur compounds. Vest.Mosk.un.Ser.2: Khim. 17 no.2:72-75
Mr-Ap '62. (MIRA 15:4)

1. Kafedra khimii nefti Moskovskogo universiteta.
(Mercury acetate) (Sulfides)

DANILOVA, T.A.; TITS-SKVORTSOVA, I.N.; NASYROV, I.; KUZNETSOV, B.V.

Reaction of an aqueous solution of mercury acetate with sulfur
organic compounds. Vest. Mosk. un. Ser. 2: Khim. 20 no.2:79-90
Mr-Ap '65. (MIRA 18:?)

1. Kafedra khimi i nefti Moskovskogo universiteta.

NASYROV, Inshar Islamovich; RUDAKOVA, L.A., red.; GAL'CHENKO, S.I.,
tekhn. red.

[Developing large oil fields] V bor'be sa bol'shimi neft'. Ufa,
Bashkirskoe knizhnoe izd-vo, 1959. 117 p. (MIRA 15:5)
(Shkapovo—Petroleum industry)

ACC# AP6033572

SOURCE CODE: UR/0181/66/008/010/3070/3074

AUTHOR: Gil'fanov, F. Z.; Malkin, B. Z.; Nasirov, I. K.; Stolov, A. L.

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Temperature dependence of the widths and shifts of phononless absorption lines in crystals of fluorides activated with gadolinium

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3070-3074

TOPIC TAGS: absorption line, line shift, line width, activated crystal, fluoride, temperature dependence, Stark effect, optic transition

ABSTRACT: The authors investigated the widths and shifts of the absorption lines of Gd³⁺ in CdF₂, CaF₂, SrF₂, and BaF₂ crystals, corresponding to phononless transitions to Stark sublevels of the terms ⁶P_{5/2} and ⁶P_{7/2} from the ground state ⁸S_{7/2}, as

functions of the concentration and temperature. Use was made of the energy levels of Gd³⁺ in these crystals, corresponding to different symmetry centers, published by the authors earlier (Opt. spektr. v. 20, 99, 1966; FTT v. 8, 142, 1966). The Gd content was 0.1, 0.3, and 1.0 at.%. The absorption spectra were obtained with a diffraction spectrograph (DFS-8-1). The crystals were grown by crystallization from the melt. The measurements were made in the interval 78--300K. All line widths increase with

Card 1/2

ACC NR: AP6033572

increasing temperature in nearly linear fashion. The maximum width range from 2 to 6 cm^{-1} at nitrogen and room temperatures, respectively. Line shifts occur with increasing temperature, amounting to 1--4 cm^{-1} , at all wavelengths. The line width is proportional to the Gd concentration. The widths and shifts increase with lowering of the crystal symmetry. The basic metal does not affect the results much. A formula is derived for the temperature dependence of the widths and shifts of cubic centers in metallic fluoride and is found to explain the observed experimental data. Orig. art. has: 3 figures and 5 formulas.

SUB CODE: 20/ SUBM DATE: 15Dec65/ ORIG REF: 003/ OTH REF: 005

Card 2/2

NASYROV, I. S.

SUDZILOVSKIY, L. N.; NASYROV, I. S., Chief Veterinary Administration, Min Agriculture,
Dissection - Study and Teaching Bashkir ASSR

Specialization of veterinarians in dissection. Veterinariia 29 no. 9, 1952, p 14.

(Also TabCon 1952 - Trans 121), "Experiment on Specialization of Veterinarians
on Prosection"

Monthly List of Russian Accessions, Library of Congress, November 1952 UNCLASSIFIED.

NASYROW, Khamraimul, Geroj Sotsialisticheskogo Truda, deputat Verkhovnogo Soveta SSSR; KAVUN, P.K., red.; GUREVICH, N.N., tekhn.red.

[Cotton is our wealth; experience of the "Moskva" Collective Farm in Dzhizak District, Samarkand Province, Uzbekistan]
Khlopok - nashe bogatstvo; iz opyta raboty kolkhoza "Moskva"
Dzhizakskogo raions Samarskoi oblasti Uzbekskoi SSR.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 63 p.

(MIRA 14:2)

1. Predsedatel' kolkhoza "Moskva" (for Nasyrov).
(Dzhizak District--Cotton growing)

NOZDRYUKHIN, V.K.; KREITER, A.A.; KLYAVIN, V.; ELIZOV, I.; SUSLOV, V.F.;
PAK, V.A., kand. geol.-min. nauk; YAKOVLEV, V.N.; LESNIK, Yu.N.;
KOROLEV, I.A.; RACHKULIK, V.I.; TACKKOVA, N.A.; KOLESNIKOVA,
V.N., kand. fiz.-mat. nauk; NASYROV, M.; SHUL'TS, V.L., doktor
geolgr. nauk, prof., otv. red.; GAYSINSKAYA, I., red.; MASHARIPOVA, D.,
red.; GOR'KOVAYA, Z.P., tekhn. red.

[Fedchenko Glacier] Lednik Fedchenko. Tashkent, Izd-vo Akad. nauk
Uzbekskoi SSR. Vol.1. 1962. 247 p. (MIRA 15:8)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut matematiki.
(Fedchenko Glacier)

NASYROV, M.

Salt of fertility. Sov. profsoiuzy 19 no.22:7-9 D '63.
(MIRA 17:1)

1. Predsedatel' zavodskogo komiteta Chirchikskogo elektro-khimicheskogo kombinata, chlen presidiuma Tashkentskogo oblastnogo soveta professional'nykh soyuzov, Uzbekskaya SSR.

MASYROV, M.A.

Tasks and prospects in the development of the botanical garden of the
Academy of Sciences of the Tajik S.S.R. in Leninabad. Uch. zap. LGPI
no.6:7-14 '58. (MIRA 13:9)

1. Direktor botanicheskogo sada AN Tadzhikskoy SSR v g.Leninabade.
(Leninbad--Botanical gardens)

YELISTRATOV, V.S.; BILYUKOV, I.P.; NAYDIN, M.SH.

Restoring the worn out parts of oil field equipment in the First
of May Oil Well Drilling Trust. Mash. i neft. oboz. no. 9138-43
'64. (MIRA '7 11)

1. Trust "Pervomayburneft".

NASYROV, N.

Dynamics of the infection of cotton by *Verticillium dahliae*
Kleb. Vop. biol. i kraev. med. no.4:55-58 '63.
(MIRA 17:2)

NASYROV, O.

Smut and rust fungi of the middle Amu Darya Valley. Izv.AN Turk.SSR
Ser.biol.nauk no.4:24-30 '62. (MIRA 15:9)

1. Institut botaniki AN Turkmeneskoy SSR.
(AMU DARYA VALLEY--RUSTS(FUNGI) (AMU DARYA VALLEY--SMUTS)

NASYROV, O.

Peronosporales and Perisporiales in the middle Amu Darya Valley.
Izv.AN Turk.SSR.Ser.biol.nauk no.5:17-23 '62. (MIRA 15:11)

1. Institut botaniki AN Turkmeneskoy SSR.
(AMU DARYA VALLEY—PERONOSPORALES)
(AMU DARYA RIVER—PERISPORIALES)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001136120005-2

YASIR A.

Ar

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001136120005-2"

NASYROV, P. M. (Kazan')

"On the Mass Flow of a Well Operating in a Heterogeneous Oil Layer."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

I 9621-66 EWT(d)/EWT(1)/EWP(n)/EWA(d)/FCS(1)/EWA(n)-2/EWA(1) TIP(c)
 ACC NR: AP6000426 SOURCE CODE: 08/0140/65/000/005/0115/0123

44, 55

Author: Kolmogorov, P. M. (Kolmogoroff)

35
B

Other:

Title: Stability on a Finite time interval in the case of two pairs of pure imaginary roots

Source: Sibir. Matematika, no. 5, 1965, 115-123

N, 44, 54

Topic: differential equations, stability

Abstract: The author proves the existence of conditions sufficient conditions for the stability of a system of differential equations with constant coefficients $\lambda_1, \lambda_2, \dots, \lambda_n$ and derivatives $t^{\alpha} \frac{dy}{dt^{\alpha}} = y_1, y_2, \dots, y_n$ in terms of the coefficients of the system.

$$\frac{dy_i}{dt} = -\lambda_i y_i + \chi_1 U_1 y_1 + \chi_2 U_2 y_2 + \dots + \chi_n U_n y_n$$

$$\frac{dU_i}{dt} = \lambda_i U_i + Y_1 U_1 y_1 + Y_2 U_2 y_2 + \dots + Y_n U_n y_n \quad (1)$$

$$\begin{aligned} \frac{dU_i}{dt} = & \lambda_i U_i + \dots + P_{ii} U_i + P_{i1} U_1 + P_{i2} U_2 + \dots + P_{in} U_n + \\ & + Q_{i1} U_1 y_1 + Q_{i2} U_2 y_2 + \dots + Q_{in} U_n y_n \end{aligned}$$

$i = 1, 2, \dots, n = 1, 2, \dots, m$ in terms of x_j, y_j, \dot{y}_j . Here the coefficients of the

Const 1/2

REG: 517.917

L 9621-66
ACC NR. AP6000426

Suppose functions x_1, x_2, x_3 , y_1, y_2, y_3 , holomorphic with respect to $z_1, z_2, z_3, y_1, y_2, y_3$.
 η_1, \dots, η_n are real continuous functions on the interval $[t_0, T]$. Assume that the
functions

$$\frac{dx_i}{dt} = p_{i1}y_1 + \dots + p_{in}y_n \quad i=1, 2, \dots, n. \quad (2)$$

coefficients of equations are contained in the first approximation of the characteristic
equations at the initial moment of time

$$|p_{ij}(t_0) - \delta_{ij}| = 0 \quad (3)$$

and only roots with negative real parts. The coefficients p_{ij} in the first case are
contained in the continuous bounded functions for $t \geq t_0$ and in the second, are
continuous functions on the interval $[t_0, T]$. Orig. art. has 37 formulas.

REF ID: A6/ 0000426/ 1204464/ 0010 REV: 004

COPY 2/2

NASYROV, R.A.

Strength of Construction Elements

Dissertation: "Investigation of the Torsional Vibrations of the Shaft of the D-50 Diesel Locomotive Engine by the Method of Electromechanical Analogies." Cand Tech Sci, Moscow Electromechanical Inst of Railroad Transport Engineers, Moscow, 1953. (Referativnyy Zhurnal, Mekhanika, Moscow, Mar 54).

SO: SUM 213, 20 Sep 54

SOV/112-57-5-10825

Translation from: Referativnyy zhurnal Elektrotehnika, 1957, Nr 5, p 177 (USSR)

AUTHOR: Golovko, M. D., Nasyrov, R A

TITLE: Electrical Integrator for Solving the Problems of Dynamics of Mechanical Systems (Elektrointegrator dlya resheniya zadach dinamiki mekhanicheskikh sistem)

PERIODICAL: Vestn. Vses. n.-i. in-ta zh.-d. transp., 1956, Nr 1, pp 53-54

ABSTRACT: Construction and work procedures on the electric EI-DMS integrator are considered; the integrator is an analog computer based on the analogy between electrical and mechanical processes. An electric circuit equivalent to the mechanical system under study can be formed according to analogy rules and scale relationships. The processes taking place in the model are described by ordinary linear differential equations whose number may reach 30. Computations are made for the case of steady-state periodic oscillations. Inductance, capacitance, and resistance members simulating the properties of the mechanical system being studied are supplied with the EMFs simulating

Card 1/2

SOV/112-57-5-10825

Electrical Integrator for Solving the Problems of Dynamics of Mechanical Systems
perturbing forces. Phototubes are used as the EMF sources; phototube current is varied according to the law of variation of the perturbing force. This is attained by passing the luminous flux received by each phototube through a corresponding photodiagram that is placed in a rotating transparent drum (the photopickup has 6 drums). The solution in the setup circuit is fixed by an electronic or loop oscillograph in the form of voltage (or current) variations at various nodes of the circuit. The EI-DMS integrator guarantees an error of determination of self-oscillations under $\pm 1\%$ and an error in determining the amplitudes of forced oscillations within $\pm 3\%$. An investigation of torsional oscillations of axles of a 2D 100 locomotive motor has been conducted by the EI-DMS; the instrument may also be used for estimating the oscillations of buildings during earthquakes, or for calculating vertical oscillations of locomotives and railroad cars under various conditions, including different car constructions, rail lengths, and motion speeds

B.I.P.

Card 2/2

NASYROV, Rifkat Akhmetovich; GROMOV, Sergey Aleksandrovich; VOLODIN, A.I.,
kand.tehn.nauk, red.; BOBROVA, Ye.N., tehn.red.

[Operation of the TE3 diesel locomotive; maintenance and repair]
Eksploatatsiya teplovozov TE3; obsluzhivanie i remont. Moskva, Gos.
transp.shel-dor.izd-vo, 1957. 120 p. (MIRA 11:1)
(Diesel locomotives--Maintenance and repair)

SIMSON, A.E., kand.tekhn.nauk; MASYROV, R.A., kand.tekhn.nauk; SKRIPTS, N.F.,
inzhener; FAVOROV, Yu.L., aspirant.

Dynamic characteristics of two-cycle diesel engines with diverging
pistons. Vest.TSMII MPS 16 no.6:39-44 S '57. (MIRA 10:10)

1. Khar'kovskiy teplovozostroitel'nyy zavod im. V.A.Malysheva,
Vsesoyusnyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta i Khar'kovskiy institut inzhenerov zheleznodorozhnogo
transporta im. S.M.Kirova.

(Diesel locomotives)

MASYROV, R.A., kand. tekhn. nauk

Investigating the causes for lubricant thinning in the 2D100
engine. Vest. TSMII MPS [17] no.7:37-39 N '58. (MIRA 11:12)
(Diesel engines--Testing)
(Lubrication and lubricants--Testing)

NASTROV, R.A., kand.tekhn.nauk

Torsion vibrations in the shaft of the D50 diesel engine. Trudy
TSNII MPS no.149;4-29 '58. (MIRA 11:6)
(Diesel engines) (Shafting--Vibration)

MASYROV, R.A., kand. tekhn. nauk

Investigating the temperature fields of the 2D100 engine pistons
by the method of electric analogies. Vest. TSMII MPS 18 no.7:50-52
II '59. (MIRA 13:2)
(Pistons--Electromechanical analogies) (Heat transfer)
(Diesel locomotives)

KASYROV, Rifkat Akhmetovich, kand.tekhn.nauk; KHUTORIANSKIY, N.M.,
kand.tekhn.nauk, red.; MEDVEDEV, M.A., tekhn.red.

[Crank gear of locomotive diesel engines] Shatunno-krivo-
shipnyi mekhanizm teplovoznnykh dizelei. Moskva, Vses.izdatel'sko-
poligraficheskoe ob'edinenie M-va putesi soobshcheniiia, 1960. 69 p.
(MIRA 14:1)

(Diesel locomotives) (Diesel engines)

NASYROV, R.A., kand.tekhn.nauk; SEMISAZHENOVA, A.A., inzh.;
ZAKHAROV, S.M., inzh.

Results of the study of oil coolers for the pistons of 2D100
diesel engines. Vest. TSMII MPS 20 no.6:21-24 '61. (MIRA 14:10)
(Diesel engines--Cooling)

NASYROV, R. A., kand. tekhn. nauk; MIRZA, A. N., insh.

Cause of the early failure of the pistons of the 2D100 diesel engine. Elek. i tepl. tiaga 6 no.9:32-34 S '62.
(MIRA 15:10)

(Diesel engines) (Diesel locomotives)

NASYROV, R.A., kand.tekhn.nauk

What causes the uneven power distribution between the crankshafts
of the 2D100 diesel locomotive? Elek. i tepl.tiaga no.7:32-34 Jl
'63. (MIRA 16:9)

(Diesel locomotives--Testing)

ZELENETSKAYA, I.S., kand.tekhn.nauk; NARSKIKH, I.I., kand.tekhn.nauk;
MASYROV, R.A., kand.tekhn.nauk; ROMANOVA, L.A., inzh.

Damage to the pistons and crankshaft bearings of the 2D100 diesel
locomotives during operation when using various lubricating oils.
Trudy TSMII MPS no.262:5-20 '63. (MIRA 16:10)

NASYROV, R.A., kand.tekhn.nauk; SEMISAZHENOVA, A.A., kand.tekhn.nauk;
ZAKHAROV, S.M., inzh.

Investigating the cooling of pistons and lubricant distribution
in the ZD100 diesel engine. Trudy TSMII MPS no.262,21-35 '63.
(MIRA 16:1G)

NASYROV, R.A., kand. tekhn. nauk; KLIMOV, N.N., inzh.

Answers to readers' queries. Elek. i tepl. tiaga 7 no.10:35
0 '63. (MIRA 16:11)

YEGUNOV, P.M., kand. tekhn. nauk; ZELENETSKAYA, I.S., kand. tekhn.;
NASTROV, R.A., kand. tekhn. nauk; SEMISAZHENOVA, A.A., kand.
tekhn. nauk; ZAKHAROV, S.M., inzh.

Effect of the lubricant viscosity on the basic characteristics
of the performance of 2D100 diesel locomotives. Vest. TSNII MPS
23 no.826-30 1974 (MIRA 1972)

NASYROV, R.G.; MOLCHANOV, A.I.

Organization of work in shelterbelt forestry and landscape
gardening in the Golodnaya Steppe. Mat. po proizv. sil. Uzb.
no.15:448-455 '60. (MIRA 14:8)

1. Glavgolodnosteptstroy i Nauchno-issledovatel'skiy institut
lesnogo khozyaystva Akademii sel'skokhozyaystvennykh nauk
Uzbekskoy SSR.
(Golodnaya Steppe—Windbreaks, shelterbelts, etc.)
(Golodnaya Steppe—Landscape gardening)

MASYROV, E.M.

Determining the form of a biplane according to given distribution
of speed on the surfaces of profiles making up the biplane. Uch.
zay. Kurs. un. 113 no. 10:31-41 '53. (MLRA 10:6)

1. Kafedra mekhaniki.
(Functional analysis) (Aerodynamics)

MASYROV, R.M.

Remarks on the displacement velocity formula of surfaces. Uch.sap.
Kaz.un. 116 no.1:59-60 '55. (MLRA 10:5)

1. Nauchno-issledovatel'skiy institut matematiki i mehaniki im.
N.G. Chebotareva.
(Fluid dynamics)

SOV/124-57-4-4471

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 86 (USSR)

AUTHOR: Nasyrov, R. M.

TITLE: On the Problem of Determining the Pressure Field in a Reservoir
of Variable Permeability (K voprosu opredeleniya polya davleniy v
plaste peremennoy pronitsayemosti)

PERIODICAL: Uch. zap. Kazanskogo un-ta, 1956, Vol 116, Nr 1, pp 61-65

ABSTRACT: On the assumption that the liquid under consideration is incompressible
and homogeneous, that its motion conforms to a linear law of seepage
flow, and that the permeability of the reservoir $k(x, y)$ is variable, the
pressure function $p = p(x, y)$ is determined with the aid of the equation

$$\frac{\partial}{\partial x} \left(k \frac{\partial p}{\partial x} \right) + \frac{\partial}{\partial y} \left(k \frac{\partial p}{\partial y} \right) = 0 \quad (*)$$

where $p = p_0$ along the contour of influence L , n wells being present
in the oil-bearing region. By introducing the variable $u = p/\sqrt{k}$, the
equation (*) is reduced to the form:

Card 1/2

SOV/124-57-4-4471

On the Problem of Determining the Pressure Field in a Reservoir (cont.)

$$\Delta \sqrt{k} u - u \Delta \sqrt{k} = 0 \quad (\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2})$$

A solution of the problem is given for a case when the function $\sqrt{k(x,y)}$ satisfies the Helmholtz equation $\Delta \sqrt{k} + a \sqrt{k} = 0$. The solution assumes the form of the sum of two functions u_1 and u_2 , viz., $u = u_1 + u_2$. Function u_1 acquires a zero value at the contour L and exhibits a logarithmic singularity at points corresponding to the location of the wells; function u_2 is regular within the boundaries of the oil-bearing region and acquires prescribed values at the contour L .

V. A. Karpichev

Card 2/2

SOV/124 57 7 8098

Translation from: Referativnyy zhurnal. Mekhanika 1957 Nr 7 p 98 (USSR)

AUTHOR: Nasyrov R. M

TITLE: On the Determination of the Pressure Field in a Stratum of Variable Permeability Taking Into Account the Differences in the Viscosity of Water and Oil (K voprosu opredeleniya polya davleniy v plaste peremennoy pronitsayemosti s uchetom razlichiy vyazkostey vody i nefti)

PERIODICAL: Uch. zap Kazansk. un-ta 1956 Vol 116 Nr 5 pp 45-49

ABSTRACT: The author examines a circular stratum bounded by a feed contour Γ_n . The boundary Γ_k between the oil and water during the process of exploitation of the stratum by means of wells located at points $A_i(x_i, y_i)$ ($i = 1, 2, \dots, n$) is imagined as being displaced in accordance with the given law $F(x, y, t) = 0$. It is assumed that the exploitation is performed by the water drive method, that the fluids are incompressible, and that the seepage law is linear; it is further assumed that the permeability coefficient $k(x, y)$ represents a function that is continuous and finite together with its derivatives up to and including the second order ($k \neq 0$ at any point of the stratum). The

Card 1/4

SOV124-57 7 8098

On the Determination of the Pressure Field in a Stratum of Variable (cont.)

pressure $p(x, y, t)$ is determined from the equation

$$\frac{\partial}{\partial x} (k \frac{\partial p}{\partial x}) + \frac{\partial}{\partial y} (k \frac{\partial p}{\partial y}) = 0 \quad (1)$$

By the usual substitution of $u = p \sqrt{k}$ equation (1) is transformed to appear as

$$\Delta u - \frac{\Delta \sqrt{k}}{\sqrt{k}} u = 0 \quad (2)$$

The author analyzes a case when equation (2) assumes the form of

$$\Delta u + a^2 u = 0 \quad (3)$$

The problem is reduced to the determination of the function u from equation (3) with the following boundary conditions: a) At the points $A_1(x_1, y_1)$ the function u has logarithmic singularities; b) the function $u = 0$ on the contour Γ_0 ; c) on the contour Γ_k $u^+ - u^-$

(Equations on next card)

Card 2/4

SOV/124 57 7 8098

On the Determination of the Pressure Field in a Stratum of Variable (cont.)

$$\frac{\partial u^+}{\partial n} - \frac{\partial u^-}{\partial n} = \frac{(\mu_n - \mu_v)m}{\sqrt{k}} \frac{\partial F}{\partial t} / \frac{\partial F}{\partial n} \quad (4)$$

$$\frac{\partial u^+}{\partial n} + \frac{\partial u^-}{\partial n} = \frac{(\mu_n - \mu_v)m}{\sqrt{k}} \frac{\partial F}{\partial t} / \frac{\partial F}{\partial n} + \frac{1}{k} \frac{\partial k}{\partial n} u \quad (5)$$

where the superscripts plus and minus correspond to the areas occupied by the oil and the water, respectively; μ_n and μ_v are the viscosity coefficients of oil and water; m is the porosity of the medium, and n is the normal to the contour Γ_k . The solution of the equation (3) is found in the form of the sum

$$u = u_1 + u_2$$

where the function u_1 satisfies the conditions a), b) and c), and the function u_2
Card 3/4

SOV/124 57-7 8098

On the Determination of the Pressure Field in a Stratum of Variable (cont.)

satisfies the conditions a) and b) and equation (4). Equation (5) cannot be satisfied exactly for the a priori prescribed law governing the contraction of the contour I_k . The determination of the so-called discrepancy and its minimum for the accomplishment of a prescribed movement of the line constitutes the problem of the control of the movement of the oil bank contour line (RZhMekh.1956 abstract 530.)

V. A. Karpovich

Card 4/4

NASYROV, R.M.

Determining the nonhomogeneity of a formation by the hydrodynamic method. Uch. zap. Kaz. un. 117 no.9:133-138 '52.

(MIRA 13:1)

1. Nauchno-issledovatel'skiy institut matematiki, i mekhaniki im. N.G. Chebotareva.
(Oil sands--Permeability)

AUTHOR: Nasyrov, R.M. (Kiyev) SOV 140 58-1-1/21

TITLE: On a Method for the Reconstruction of the Pressure Function
in the Inhomogeneous Porous Medium (Ob odnom metode vosstanov-
leniya funktsii davleniya v neodnorodnoy poristoy srede)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego
obrazovaniya SSSR, Matematika, 1958, Nr 1, pp 114-123 (USCR)

ABSTRACT: The determination of the pressure function in an inhomogeneous,
non-deformed porous medium in presence of filtration is es-
sentially carried out by successive approximation according
to Khristianovich [Ref 1].
There are 3 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut matematiki i mehaniki
imeni N.G. Chebotareva pri KGU (Scientific Research Institute
for Mathematics and Mechanics imeni N.G. Chebotarev of the Kiyev
State University)

SUBMITTED: November 5, 1957

Card 1/1

NASYROV, R.M.

Applying the Dupuit formula to nonhomogeneous layers. Izv.vys.ucheb.
zav.; neft' i gas 1 no.9:67-72 ' 58. (MIRA 11:12)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova
(Lenina).
(Petroleum engineering)

NASYROV, R.M.

Yield of a well in a nonuniform oil layer. Izv. vys. ucheb.
zav.; neft' i gaz 3 no.5:71-74 '60. (MIRA 15:6)

1. Kasanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina.
(Oil reservoir engineering)

ACCESSION NR: AR4039290

S/0044/64/000/003/B053/B053

SOURCE: Ref. zh. Matematika, Abs. 3B252

AUTHOR: Nasibrov, R. M.

TITLE: A critical case in stability of motion in a finite time interval

CITED SOURCE: Sb. Itog. Nauchn. konferentsiya Kazansk. un-ta za 1962 g. Sekts. matem. n. Kazan', Kazansk. un-t, 1963, 158-160

TOPIC TAGS: motion stability critical case, null solution stability, two equation system, eigen value, linear approximation matrix

TRANSLATION: The author studies the question concerning the stability of the null solution of a system of two equations with purely imaginary eigen values for the matrix of linear approximation in the case where it (the question) is solved by means of a finite number of terms in the expansion of the right hand parts. V. Zubov.

DATE ACQ: 22Apr64

SUB CODE: MA

ENCL: 00

Card 1/1

NASTROV, R.M.

Stability of almost periodic motions in certain critical cases.
Trudy Un. druzh. nar. 5 Teor. mekh. no.2: 30-44 '64.
(MIRA 18x9)

I 36004-66 EWT(d) IJP(c)
ACC NKC AR6004024

SOURCE CODE: UR/0044/65/000/009/B040/B040
28

AUTHOR: Kasyrov, R. M.

TITLE: Stability of almost periodic motions in certain critical cases

SOURCE: Ref. zh. Matematika, Abs. 9B194

REF SOURCE: Tr. Un-ta druzhby narodov im. Patrisa Lumumba, v. 5, 1964, 30-44

TOPIC TAGS: periodic motion, periodic function, complex function

ABSTRACT: The system is considered:

$$\frac{dz}{dt} = a_{11}z_1 + \dots + a_{nn}z_n + Z_s(t, z_1, \dots, z_n),$$

where a_{ij} are constants. The equation $|a_{ij}| - \lambda_{ij} = 0$ has roots only with zero and negative real parts. The functions Z_s are analytic in z and almost periodic in t , and their expansions begin with terms no lower than second order. It is established that under certain assumptions the theorems of G. V. Kamenkov (1939), which were proved by him on analysis of critical cases under the assumption that Z_s are periodic, can be extended to the case of a system with almost periodic Z_s . B. Bylov [Translation of abstract]

SUB CODE: 12

Card 1/1 *LL*

UDC: 517.917

L 2033-65 EWT(d)/EWA(m)-2 IJP(c)/AFWL/ASD(a)-5/ASD(s)/AFETR/ESD(dp)
ACCESSION NR: AP5003636 S/0140/64/000/005/0061/0068

AUTHOR: Nasyrav, R. M. (Kazan)

TITLE: Stability of a pair of purely imaginary roots in the critical case over a finite time interval

SOURCE: IVUZ. Matematika, no. 5, 1964, 61-68

TOPIC TAGS: differential equation, function theory

Abstract: A system of differential equations of the perturbed motion type is

$$\frac{dx}{dt} = -\lambda y + X(t, x, y, x_1, \dots, x_n),$$

$$\frac{dy}{dt} = \lambda x + Y(t, x, y, x_1, \dots, x_n),$$

$$\frac{dx_s}{dt} = P_{s1}x_1 + \dots + P_{sn}x_n + p_s x + q_s y + x_s(t, x, y, x_1, \dots, x_n) \quad (s = 1, 2, \dots, n),$$

where the coefficients of the nonlinear holomorphic functions x , y , x_s are real and continuous functions of t $[t_0, T]$. Since the problem

Card 1/2

L 20033-65

ACCESSION NR: AP5003636

of stability over a finite interval of time is not solved by first approximation equations, nonlinear terms have to be considered. The author considers the problem of establishing the stability or instability of unperturbed motion according to the structure of the functions x_1, y, x_3 . He considers first, second, and $(n+2)$ -th order equations.

ASSOCIATION: none

SUBMITTED: 06May63

ENCL: 00

SUB CODE: MA

NO REF Sov: 003

OTHER: 000

JPRS

Card 2/2

NASYROV, R.M. (Kazan')

Stability in the final time interval in the case of two pairs of
purely imaginary roots. Izv.vys.ucheb.zav.; mat. no.5:115-123 '65.
(VIRA 18:10)

ACC NR: AF7008923

SOURCE CODE: UR/0140/66/000/005/0100/0111

NASYROV, R. M., Kazan'

"Qualitative Investigation of a Singular Case of Stability in the Case of Two
Zero Roots"

Kazan', Izvestiya Vuzov -- Matematika, No 5, 1966, pp 100-111

ABSTRACT: The investigation of a singular case of stability of motion by Lyapunov's direct method was considered by G. V. Kamenkov. The present article gives an analysis of stability of motion in a singular case on the basis of a qualitative investigation of trajectories in the neighborhood of a singular line. This analysis also makes possible a solution to the question of conditional instability of motion in a singular case. The author uses for the qualitative investigation the method of normal domains and the Frommer-Kukles method in conjunction with Lyapunov's direct method. The article considers the simple case where there is present a unique, nonmultiple singular line.

Orig. art. has:

11 figures and 3 formulas. [JPRS: 39658]

ORG: none

TOPIC TAGS: motion stability, physics

SUB CODE: 20

Card 1/1

UDC: 517.917
n959 1742

ACC NR: AR6026487

SOURCE CODE: UR/0274/66/000/004/A024/A024

AUTHOR: Kozlov, V. A.; Nasyrov, R. V.; Shteyn, V. K.

TITLE: Stability of the kinematic magnetostriiction filter

SOURCE: Ref. zh. Radiotekhnika i elektron svyazi', Abs. 4A150

REF SOURCE: Sb. Vopr. teorii i nadezhnosti apparatury i kanalov svyazi. Tashkent, Nauka, 1965, 214-220

TOPIC TAGS: magnetostriction, filter, magnetostriction resonator

ABSTRACT: Factors are considered which assure stability to magnetostriiction resonators (MR) used in kinematic magnetostriiction filters. The thermal stability of Q-factor and resonance frequency and their effects on the cross attenuation at 20--60C are analyzed. Temperature variation impairs the cross attenuation (due to Q-factor instability) by 25 db or less. Instability of the resonance frequency has a greater effect. The effect of instability of electromechanical-coupling coefficient K and static inductance on the oscillation suppression has been studied. With a suppression duration of 1 microsec, a MR with $K > 12\%$ permits obtaining a depth of suppression up to 60 db; the effect of temperature instability can be neglected. The effect of inductance instability is serious but it can be reduced by introducing a capacitor with a negative temperature coefficient into the suppression loop. Four figures. Three tables. Bibliography of 5 titles. L. S. [Translation of abstract]

Card 1/1 SUB CODE: 20.09

UDC: 621.372.542.24

GUSSAK, Veniamin Borisovich; NASYROV, Yakh'ya Miraaidovich;
SIVOVTSOV, Yuriy Aleksandrovich; BOYKO, A.N., red.; SOROKINA,
Z.I., tekhn. rea.

[Soil formation on loess accumulations of various ages and
the fertility of Sierozems] Pochvoobrazovanie na lessovykh
akkumuliatsiakh raznogo vozrasta i plodorodie serozemov.
Tashkent, In-t pochvovedeniia, 1961. 159 p. (MIRA 15:7)
(Uzbekistan—Sierozem soils)
(Uzbekistan—Loess)

BUTSKOV, N.A.; NASYROV, Ya.M.; PANKOV, M.A., doktor sel'khoz. nauk,
otv. red.; KURANÖVA, L.I., red.; KRIVONOSOVA, N.A., red.;
SOROKINA, Z.I., tekhn. red.

[Soils in the southwestern Kyzyl Kum] Pochvy Iugo-Zapadnykh
Kyzylkumov. Tashkent, In-t pochvovedeniia, 1961. 198 p.
(MIRA 15:7)

(Kyzyl Kum—Soils)

NASYROV, Yu. S.

"Photosynthesis of the Cotton Plant as a Factor of Its Productivity." Cand Biol Sci, Inst of Botany imeni V. L. Komarov, Acad Sci USSR (Apr-Jun 54). (Vest Ak Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

MASYROV, Yusuf Saidovich; BREGETOVA, L.G., otv.red.; VINOGRADSKAYA, S.N.,
red. Izd-va; MULOV, P.M., tekhn.red.

[Photosynthesis and the yield of cotton] Fotosintez i uroshai
khloopshatnika. Stalinabad. Izd-vo AN Tadzh.SSR. 1956. 122 p.
(Akademika nauk Tadzh.SSR, Stalinabad, Trudy, vol.60)

(Cotton growing) (Photosynthesis) (MIRA 12:6)

NASYROV, Yu.S.

Basic results and future development of the physiology and biochemistry of plants in Tajikistan. Trudy Otd. fisiol. i biofiz. rast.
AN Tadzh. SSR 1:3-17 '62. (MIRA 16:3)
(Tajikistan--Plant physiology)
(Tajikistan--Botanical chemistry)

NASYROV, Yu.S.

Photosynthesis of mesophilous and xerophilous trees of the
Kondara Gorge. Trudy Otd. fisiol. i biolog. rast. Akad. SSR
1:18-35 '62. (MIRA 16:3)
(Photosynthesis) (Kondara Gorge—Trees)

MASYROV, Yu.S.

Photosynthesis of plants of the Anzob Pass. Trudy Otd. fisiol. i
biofiz. rast. AM Tadzh. SSR 2:108-124 '62. (MIRA 16:4)
(Anzob Pass—Alpine flora) (Photosynthesis)

NASYROV, Yu.S.; GILLER, Yu.Zo.; LOGINOV, M.A.; LEBEDEV, V.N.

Using C¹⁴ for studying the photosynthetic balance in the plants
of phytocoenoses. Bot.zhur. 47 no.1:96-99 Ja '62.

(MIRA 15:2)

1. Laboratoriya fiziologi i biofiziiki rasteniy AN Tadzhikskoy SSR,
Dushanbe.

(Plant communities) (Photosynthesis)

NASYROV, Yu.S.

Photosynthesis in the dominant species of shortgrass semisavannas
Bot. zhur. 47 no.4:485-494 Ap '62. (MIRA 15:8)

1. Botanicheskiy institut AN Tadzhikskoy SSR, Dushanbe.
(Vakhsh Valley--Grasses) (Photosynthesis)

MASYROV, Yu.S.; ABDURAKHMANOVA, Z.N.; GILLER, Yu.Ye.

Interrelation between the photosynthesis and water metabolism in plants. Trudy Otd. fiziol. i biofiz. rast. AN Tadz. SSSR no.3:3-12 '63.
(MIRA 16:9)

MAKHMADBEKOVA, L.M.; NASYROV, Yu.S.

Metabolism of carbon absorbed in photosynthesis by plants as related to the conditions of water supply. Trudy Otd. fisiol. i biofiz. rast. AN Tadzh. SSSR no. 3:17-22 '63. (MIRA 16:9)

RAKHMANINA, K.P.; NASYROV, Yu.S.

Photosynthesis and water balance in plants as related to their
ecology and origin. Trudy Otd. fiziol. i biofiz. rast. AN Tadzh.
SSSR no.3:23-28 '63. (MIRA 16:9)

TRANSFER PAGE SERIES 1010

WRITE BELOW THIS

ACCESSION NR: A84023353

8/0299/64/000/004/0006/0006

SOURCE: R.R. Biologiya, No. 4635

AUTHOR: Egamberdyev, A. R.; Aliyev, E. A.; Nasyrov, Yu. S.

TITLE: Migration of radioactive photosynthesis products from the leaves to the bolls in cotton

CITED SOURCE: Tsent. ob. Otd. fiziol. i biofiz. rast. Akad. Nauk SSSR, no. 4, 1963,
36-41TOPIC TAGS: cotton plant, photosynthesis, photosynthesis product assimilation,
photosynthetic assimilate migration, intraplant assimilate migrationTRANSLATION: The dynamics of the migration of organic substance from the leaves to the bolls were studied in cotton plants of the 106-Y variety, grown on test plots in the Tadzhik SSR. The study employed supplemental nutrition with Cl^{14}O_2 , and the cotton was planted at intervals of five days between April 1st and May 25th. Exposures lasted 3 minutes. The principal amount of assimilated matter reaching a boll comes from the leaf at the base of which it is located. Variations in the dynamics of accumulation of organic matter in the boll, the drainage

Card 1/2

ACCESSION NR: AR4023353

of assimilates from the leaf and the intensity of photosynthesis are interrelated. Two peaks were noted - during the initial and terminal periods of ripening of the boll (i.e. 5th and 45th days). The largest amount of C4 accumulating in a pod settles in the seeds and fibers. The maximal accumulation in the fibers precedes maximal accumulation in the seeds. L. Polischuk

DATE ACQ: 10Mar84

SUB CODE: AM

ENCL: 00

Card 2/2

NASYROV, Yu.S.; LOGINOV, M.A.

Study of the photosynthetic balance of herbaceous plant phytocenoses. Bot. zhur. 49 no.1:30-38 Ja '64. (MIRA 17:2)

1. Otdel fiziologii i biofiziki rasteniy AN Tadzhikskoy SSR, Dushanbe.

REYNUS, Roza Mikhaylovna; NASYROV, Yu.S., otv. red.

[Carbohydrate metabolism in plants of the high mountains
of the Pamirs] Uglevodnyi obmen rastenii v usloviakh
vysokogorii Pamira. Dushanbe, Izd-vo AN Tadzhik.SSR,
1964. 136 p.
(MIRA 18:3)

L 43100-65 ENG(j)/ENG(r)/EWT(1)/FS(v)-3/ENG(v)/ENG(a)-2/ENG(c) Pb-4/Pe-5 DD
ACCESSION NR: AR5008611 5/0299/65/000/004/G008/G008

35
B

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 4G57

AUTHOR: Loginov, M. A.; Nasirov, Yu. S.

TITLE: Photosynthesis in some cultivated plants

CITED SOURCE: Tr. Otd. fiziol. i biofiz. rast. AN TadzhSSR, v. 3, 1964, 49-67

TOPIC TAGS: photosynthesis, agricultural crop, steppe productivity, sedge fescue steppe, beet photosynthesis, barley photosynthesis, sunflower photosynthesis, plant productivity, transpiration, assimilative capacity, moisture consumption

TRANSLATION: Using beets, barley and sunflower as examples, the authors studied the relationship between the diurnal and seasonal variations in photosynthesis (by means of a radioactive method), the pure productivity of the plant (by the method of weight calculation), and the intensity of transpiration. The diurnal rhythm of photosynthesis (in beets, for example) is characterized by a curve with a single maximum in the afternoon, a very high assimilative capacity (200 mg CO₂ per gram of dry leaf weight per hour) and a relatively economical consumption of moisture. Beets are characterized by a uniform sea-

high assimilative capacity (200 mg CO₂ per gram of dry leaf weight per hour) and a relatively economical consumption of moisture. Beets are characterized by a uniform seasonal course of photosynthesis. Barley shows a high intensity of potential photosynthesis

Card 1/2

L 43100-65
ACCESSION NR: AR5008611

at the beginning of its development; a second maximum in the photosynthesis curve appears at the beginning of August (in the heading phase). In contrast to wild flora, cultivated agricultural crops show a high assimilative capacity over the course of a long period (60-70 days), which results in high productivity. In these plants, the majority of the products of photosynthesis are used for the formation of economically valuable organs. Thus, having a high rate of photosynthesis and a vigorously developed leaf surface area, these

ducts of photosynthesis are used for the formation of economically valuable organs. Thus, having a high rate of photosynthesis and a vigorously developed leaf surface area, these crops can accumulate 70-80 metric centners of overall biological yield, or 40-50 metric centners of above-ground mass, per hectare per season, which is 3-4 times as high as the productivity of the natural vegetation of a sedge-fescue steppe; when cultivated under dry conditions, these crops have a low transpiration coefficient (200-350). All of this points up the necessity of replacing the natural vegetation by cultivated crops. V. Korshunova

SUB CODE: LS

ENCL: 00

BJS
Card 2/2

NASYROV, Yu.S.; RAKHMANINA, K.P.

Physiological characteristics of barley as related to its growing
in various vertical belts of Tajikistan. Trudy Otd. fiziol. i
biofiz. rast. AN Tadzh. SSR 3:68-81 '64. (MIRA 18:4)

NASYROV, Yu.S., otv. red.; SAPOZHNIKOV, D.I., red.; PROKOF'YEV,
A.A., red.; ZALENSKIY, O.V., red.; MAKSUMOV, A.N., red.;
KARIMOV, Kh.Kh., red.; LOGINOV, M.A., red.; GILLER,
Yu.Ye., red.; USMANOV, P.D., red.; KAS'YANENKO, A.G., red.;
RAKHMANINA, K.F., red.

[Contribution of plant physiology to agriculture; problems
of photosynthesis and metabolism] Fiziol'giia rastenii -
sel'skomm khozaiystvu; voprosy fotosinteza i obmena veshchestv.
Dushanbe, Izd-vo AN Tadzhikskoi SSR, 1965. 131 p.

(MIRA 18:4)

l. Akademiya nauk Tadzhikskoy SSR, Dushanbe. Institut fizio-
logii i biofiziki rastenii.

L 33660-66 EWT(1) SCTB DD

ACC NR: AT6013448

SOURCE CODE: UR/3179/65/007/000/0133/0141

AUTHOR: Nasyrov, Yu. S.; Rakhmanina, K. P.

27

B+1

ORG: none

TITLE: Photosynthesis and transpiration of Gissar Range plantsSOURCE: Vsesoyuznoye botanicheskoye obshchestvo. Problemy botaniki,
v. 7, 1965. Voprosy biologii i fiziologii rasteniy v usloviyah
vysokogorij (Problems of biology and physiology of plants at high
altitudes), 133-141TOPIC TAGS: plant ecology, photosynthesis, plant morphology, climatic
influenceABSTRACT: Photosynthesis intensity and transpiration rate of plants
growing at a 3500 m altitude in the Gissar Range were investigated in
1956-57 by the Botanical Institute of the AN TadzhSSR. The climate of the
area characterized by considerable daily and seasonal temperature
shifts, dryness of air, high insulation, and little precipitation is
classified as a moderately humid high altitude subtropic zone. Findings
show that photosynthesis intensity and transpiration activity of high
altitude plants is relatively low. The photosynthesis apparatus of

Card 1/2

L 33660-66

ACC NR: AT6013448

cryophytic plants appears adapted to low temperatures; the most favorable conditions for their assimilation activities are intense light and low temperature. Mesophytes of the subalpine zones are characterized by relatively active assimilation and transpiration. Highest photosynthetic activity is found in xeromesophytes. Plants with a marked zermorphic structure display relatively low activity. With increase of altitude, photosynthesis intensity of oligothermic plants increases and that of mesothermic plants decreases. Photosynthesis and transpiration quantitative changes at different altitudes are determined by external factors and by the ecological type of plant. Orig. art. has: 1 table and 3 figures.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 015/ OTH REF: 009

Card 2/2 m

L 33257-66

ACC NR: AT6012787

SOURCE CODE: UR/3175/66/000/027/0093/0100

AUTHOR: Ivanov, V.G.; Natadze, A.L.

89
8+1

ORG: TsNII

TITLE: Analysis of the transfer properties of magnetometer with a sounding ferromagnetic sensor

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet, Osoboye knstruktorskoye byuro, Geofizicheskaya apparatura, no.27, 1966, 93-100

TOPIC TAGS: magnetometer, magnetometer response, magnetic detection, magnetic detection

ABSTRACT: The main purpose of this paper is to develop a transfer operator and to find the impulse response of a ferromagnetic sensor magnetometer, as a substitute for the transfer function of a linear system. Under the assumption that the sensor is excited by a sinusoidal field, $H = H_0 \sin \omega t$, sufficiently high to reach sensor saturation at the extremes, and that the signal acting on the sensor, H_x , is small, $H_x \ll H_0$, the voltage output of the sensor is written as

$e = k \left(\frac{d}{dt} \right) (\mu H_x) \quad (1)$ where k is a constant and $\mu = dB/dH \quad (2)$ is the dynamic permeability.

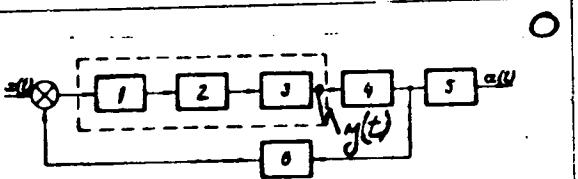
The magnetometer block diagram is given in Fig. 1. By tracing the transformations of an input at a single given frequency, $x(t) = H \exp(j\omega t + \varphi) = H^* \exp(j\omega t) \quad (3)$ thru

Card 1/2

L 33257-66

ACC NR: AT6012787

Fig. 1. Magnetometer block diagram.
 1 - Ferrosounding sensor; 2 - selective amplifier; 3 - demodulator; 4 - correction circuits; 5 - mechanical part of display; 6 - feedback and elec. part of display



the blocks 1,2, and 3 of the system, the output is found in the form

$$y(t) = H \cdot W_e^m(\Omega) \exp(j\Omega t) \quad (4)$$

This shows that an output with a frequency $\omega = 2\omega_0 + \Omega$ at block #1 entrance creates an output with a frequency Ω at block #3 exit, and the input amplitude is multiplied by a coefficient, W_e^m , expressible by the system parameters. This response of the nonlinear system to one frequency is then utilized to obtain a relation between the input and output of the 1,2,3-blocks combination subsystem (dashed area). (There is no distinct discussion of the validity of such superposition and cross-term irrelevance; however, the authors stress the fact that the analysis cannot yield a transfer function equivalent to the linear concept, Abstractor). By considering the feedback loop, the analysis is extended to the whole magnetometer system. The impulse response of the instrument is then obtained. Orig.art. has 2 figures, 21 formulas.

SUB CODE: 17/ SUBM DATE: 00/ ORIG REF: 002

Card 2/2 *bj*

NASYROVA, L.I.; SAVRUKHIN, A.P.

Drift of meteor trails according to visual observations at
Ashkhabad in 1959 and 1960. Izv.AN Turk.SSR.Ser.fiz.-tekhn.,
khim.i geol.nauk no.3:27-31 '63. (MIRA 17:3)

1. Fiziko-tehnicheskiy institut AN Turkmeneskoy SSR.

ACCESSION NR: AP4033419

8/0202/64/000/001/0121/0124

AUTHORS: Savrukhan, A. P.; Nasyrova, L. I.

TITLE: Drift of meteoric trains observed visually in Ashkabad, 1961

SOURCE: AN TurkmenSSR. Izvestiya. Seriya fiziko-tehnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1964, 121-124

TOPIC TAGS: meteoric train, train drift, train height, drift velocity, drift direction, binocular TZK

ABSTRACT: Drifts of meteoric trains (observed by A. P. Savrukhan in August 1961) were studied in order to complete earlier investigations of winds at high altitudes. A binocular telescope TZK with an objective aperture of 80 mm and a field of vision of 8° was used. In all, 22 meteors were observed, 20 of them belonging to the Perseid stream. Data were processed by the method developed by A. P. Savrukhan (Izvestiya AN TSSR, seriya FTKhGN, No. 1, str. 15, 1963). Over 70 drift vectors were calculated. Drift heights ranged from 01 to 108 km, their velocities from 0 to 132 m/sec, and their astronomic azimuths from 9 to 352° . The velocities of 75% lay within the range 0-60 m/sec, with a mean value of 34 m/sec. Smallest drift

Card 1/2

ACCESSION NR: AP4033419

velocities were observed at the heights of 88-90 km, greatest at 96-99 km and at 83 km. Between 89 and 98 km the wind velocity gradient was +3.5 m/sec/km. One half of the trains moved due SE. At 90-100 km the drifting proceeded in all directions, but below 90 km only the southward, southwestward, and northeastward movements were observed. In these cases the directions were seen to change, and in one case the drift followed a circular arc. Orig. art. has 3 tables and 2 diagrams.

ASSOCIATION: Otdel geofiziki i seismologii AN TurkmenSSR (Department of Geophysics and Seismology, Academy of Sciences, Turkmen SSR)

SUBMITTED: 30Sep63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: MS

NO REF Sov: 003

OTHER: 002

Card 2/2

PANOVA, V.Ye.; NASYROVA, M.D.

Radiometric determination of lead with the aid of Cr⁵¹. Izv.vys.
ucheb.zav.;khim.i khim.tekh. 5 no.3:371-373 '62. (MIRA 15:7)

1. Ivanovskiy khimiko-tehnologicheskiy institut, kafedra
analiticheskoy khimii.

(Lead--Analysis)

(Chromium--Isotopes)

USOL'TSEVA, V.A.; CHISTYAKOV, I.G.; NASYROVA, M.D.

Thermographic and polarizing microscope study of L-ascorbic acid.
izv. vys. ucheb. zav.; khim. i khim. tekhn. 8 no.1;65.
68 '65. (MIRA 18;6)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut, kafedra
biokhimii i kafedra fiziki.

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.; YERSHOVA, L.I.

Systems having the liquid crystalline state. Part 3: Cholesteryl caprylate and cholesteryl caprinate. Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:257-259 '63. (MIRA 16:9)

1. Ivanovskiy gosudarstvenny, meditsinskiy institut i Institut kristallografii AN SSSR.
(Cholesterol esters) (Octanoic acid)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.

Systems have the liquid crystalline state. Part 4: p,p'-
Nonoxybenzaloluidine. Izv. vys. ucheb. zav.; khim. i khim.
tekhn. 6 no.3:434-436 '63. (MIRA 16:8)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografii AN SSSR.
(Liquid crystals) (Toluidine--Thermal properties)

S/081/61/000/019/019/085
B101/B147

AUTHORS: Strashnikov, N. S., Nasirova, N. Z.

TITLE: Temperature dependence of emanation of minerals

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 84, abstract
19G19 (Sb. "Optika. Yadern. protsessy". Alma-Ata, 1959,
3-13)

TEXT: The authors studied the temperature dependence of the emanation of uranium black, uraninite, and zircon for Rn, Tn, An under different conditions of heating (20-1000°C, 3-60 min). As a rule, K_{em} rises with rising temperature, but maxima are observed at several intermediate temperatures. For uranium black, the maximum K_{Rn} lies at 200 and 650°C; for uraninite, the maximum K_{An} lies at 900°C; and for zircon, the maxima of K_{An} and K_{Tn} lie at 600°C. After repeated heating, these maxima do no longer appear, which is due to irreversible changes of the crystal lattice. Emanation of a preheated mineral at room temperature is only

Card 1/2